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**(54) MECHANICAL SEAL
DEVICE**

(57) Abstract:

PROBLEM TO BE SOLVED: To reduce the sliding heat of a seal face while preventing clogging and sticking of solid matter of a sealed fluid to a mechanical seal externally mounted to a device body.

SOLUTION: A first seal ring 3 has a clearance H allowing the passage of a sealed fluid, between a shaft 70 and the first seal ring 3 and constituted to communicate a flushing port 41 with the inner peripheral side of the seal face 6 through the clearance H. A mounting part 30 has a cooling annular groove 32 in the form of covering the seal face 6 of the first seal ring 3 mounted to the inner peripheral surface 8, from the outer diameter side, and the outer throttle face 33 of the cooling annular groove 32 is fitted in proximity to the outer peripheral seal face of a second seal ring 10 while having a cooling fluid passage 40 communicating with the cooling annular groove 32.

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